

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number  
**WO 03/082103 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 5/0408**,  
H01B 1/12

(21) International Application Number: PCT/IB03/00850

(22) International Filing Date: 6 March 2003 (06.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02076226.6 29 March 2002 (29.03.2002) EP

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MC, MD, MG, MK, MN, MW, MX, MZ, NL, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LAUTER, Josef** [DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **REITER, Harald** [DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **SCHMIDT, Ralf**

[DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **SUCH, Olaf** [DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **VOGTMEIER, Gereon** [DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **REICHINGER, Christian** [DE/DE]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **SCHOUTEN, Marcus, M.**; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

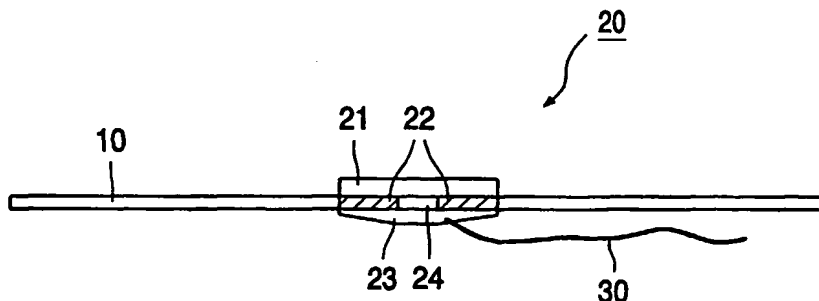
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A WEARABLE MONITORING SYSTEM AND METHOD OF MANUFACTURING OF A WEARABLE MONITORING SYSTEM



(57) Abstract: A method for manufacturing method for manufacturing a wearable monitoring system, said method comprising a step of providing a fabric-based elastic belt for housing of electrodes, the electrodes being provided by molding of an electrode material through the elastic belt. The fact that the necessary electrodes are integrated in the belt of the garment contributes to the user-friendliness of such a monitoring system. Furthermore such a system is washable which further contributes to the comfort of the patient.